



SEQUENCE LISTING

<110> Mattiasson, Bo
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Jakeman, Kenneth
Hobman, Jonathan
Wilson, Jonathan
Van Der Leile, Daniel
Corbisier, Philippe

<120> METAL ION SPECIFIC CAPACITY SENSOR

<130> 100096.403USPC

<140> US 09/508,775

<141> 2000-10-25

<160> 4

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 289

<212> PRT

<213> Synechococcus sp.

<400> 1

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Thr	Arg	Leu	Leu	Leu	Glu	Tyr	Leu	Glu	Glu	Lys	Tyr	Glu	Glu	His	Leu	
			20					25						30		
Tyr	Glu	Arg	Asp	Glu	Gly	Asp	Lys	Trp	Arg	Asn	Lys	Lys	Phe	Glu	Leu	
			35				40					45				
Gly	Leu	Glu	Phe	Pro	Asn	Leu	Pro	Tyr	Tyr	Ile	Asp	Gly	Asp	Val	Lys	
			50			55					60					
Leu	Thr	Gln	Ser	Met	Ala	Ile	Ile	Arg	Tyr	Ile	Ala	Asp	Lys	His	Asn	
65					70					75				80		
Met	Leu	Gly	Gly	Cys	Pro	Lys	Glu	Arg	Ala	Glu	Ile	Ser	Met	Leu	Glu	
				85					90					95		
Gly	Ala	Val	Leu	Asp	Ile	Arg	Tyr	Gly	Val	Ser	Arg	Ile	Ala	Tyr	Ser	
			100					105						110		
Lys	Asp	Phe	Glu	Thr	Leu	Lys	Val	Asp	Phe	Leu	Ser	Lys	Leu	Pro	Glu	
			115				120					125				
Met	Leu	Lys	Met	Phe	Glu	Asp	Arg	Leu	Cys	His	Lys	Thr	Tyr	Leu	Asn	
			130				135					140				
Gly	Asp	His	Val	Thr	His	Pro	Asp	Phe	Met	Leu	Tyr	Asp	Ala	Leu	Asp	

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TC 1700 MAIL ROOM

145 150 155 160
 Val Val Leu Tyr Met Asp Pro Met Cys Leu Asp Ala Phe Pro Lys Leu
 165 170 175
 Val Cys Phe Lys Lys Arg Ile Glu Ala Ile Pro Gln Ile Asp Lys Tyr
 180 185 190
 Leu Lys Ser Ser Lys Tyr Ile Ala Trp Pro Leu Gln Gly Trp Gln Ala
 195 200 205
 Thr Phe Gly Gly Gly Asp His Pro Pro Lys Ser Asp Leu Ile Glu Gly
 210 215 220
 Arg Gly Ile Pro Met Thr Ser Thr Thr Leu Val Lys Cys Ala Cys Glu
 225 230 235 240
 Pro Cys Leu Cys Asn Val Asp Pro Ser Lys Ala Ile Asp Arg Asn Gly
 245 250 255
 Leu Tyr Tyr Cys Ser Glu Ala Cys Ala Asp Gly His Thr Gly Gly Ser
 260 265 270
 Lys Gly Cys Gly His Thr Gly Cys Asn Cys Ser Glu Phe Ile Val Thr
 275 280 285
 Asp

<210> 2
 <211> 144
 <212> PRT
 <213> *Pseudomonas aeruginosa*

<400> 2
 Met Glu Asn Asn Leu Glu Asn Leu Thr Ile Gly Val Phe Ala Lys Ala
 1 5 10 15
 Ala Gly Val Asn Val Glu Thr Ile Arg Phe Tyr Gln Arg Lys Gly Leu
 20 25 30
 Leu Leu Glu Pro Asp Lys Pro Tyr Gly Ser Ile Arg Arg Tyr Gly Glu
 35 40 45
 Ala Asp Val Thr Arg Val Arg Phe Val Lys Ser Ala Gln Arg Leu Gly
 50 55 60
 Phe Ser Leu Asp Glu Ile Ala Glu Leu Leu Arg Leu Glu Asp Gly Thr
 65 70 75 80
 His Cys Glu Glu Ala Ser Ser Leu Ala Glu His Lys Leu Lys Asp Val
 85 90 95
 Arg Glu Lys Met Ala Asp Leu Ala Arg Met Glu Ala Val Leu Ser Glu
 100 105 110
 Leu Val Cys Ala Cys His Ala Arg Arg Gly Asn Val Ser Cys Pro Leu
 115 120 125
 Ile Ala Ser Leu Gln Gly Gly Ala Ser Leu Ala Gly Ser Ala Met Pro
 130 135 140

<210> 3
 <211> 145
 <212> PRT
 <213> *Alcaligenes eutrophus*

<400> 3
 Met Asn Ile Gln Ile Gly Glu Leu Ala Lys Arg Thr Ala Cys Pro Val
 1 5 10 15
 Val Thr Ile Arg Phe Tyr Glu Gln Glu Gly Leu Leu Pro Pro Pro Gly

20 25 30
 Arg Ser Arg Gly Asn Phe Arg Leu Tyr Gly Glu Glu His Val Glu Arg
 35 40 45
 Leu Gln Phe Ile Arg His Cys Arg Ser Leu Asp Met Pro Leu Ser Asp
 50 55 60
 Val Arg Thr Leu Leu Ser Tyr Arg Lys Arg Pro Asp Gln Asp Cys Gly
 65 70 75 80
 Glu Val Asn Met Leu Leu Asp Glu His Ile Arg Gln Val Glu Ser Arg
 85 90 95
 Ile Gly Ala Leu Leu Glu Leu Lys His His Leu Val Glu Leu Arg Glu
 100 105 110
 Ala Cys Ser Gly Ala Arg Pro Ala Gln Ser Cys Gly Ile Leu Gln Gly
 115 120 125
 Leu Ser Asp Cys Val Cys Asp Thr Arg Gly Thr Thr Ala His Pro Ser
 130 135 140
 Asp
 145

<210> 4

<211> 72

<212> PRT

<213> Pseudomonas aeruginosa

<400> 4

Ala Thr Gln Thr Val Thr Leu Ser Val Pro Gly Met Thr Cys Ser Ala
 1 5 10 15
 Cys Pro Ile Thr Val Lys Lys Ala Ile Ser Glu Val Glu Gly Val Ser
 20 25 30
 Lys Val Asp Val Thr Phe Glu Thr Arg Gln Ala Val Val Thr Phe Asp
 35 40 45
 Asp Ala Lys Thr Ser Val Gln Lys Leu Thr Lys Ala Thr Ala Asp Ala
 50 55 60
 Gly Tyr Pro Ser Ser Val Lys Gln
 65 70